CHIKMAGALUR FOREST DIVISION.

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Notification dated 30th October 1952.

Subject:—Unclaimed security deposit—Savings Bank Pass Books.

It is hereby notified for the general information of the public that the undermentioned Savings Bank Pass Books previously pledged as security, remain unclaimed even though the period and purpose of such pledging is long over.

The original depositor or any person claiming the right to such deposit may prefer his claim to this office within three months from the date of this notification, failing which the Pass Books will be sent to the Treasury Officers concerned for taking such action as provided in the Saving Bank Rules.

Sl. No.	Account No.	Name of Treasury	Name of Depositor	Designation and address	Amount outstanding
			(*a*) Dead Accounts.		
			Sriyuths—		Rs. a. p.
1	910	Chikmagalur District	Venkata Rao	Mutsaddi, Belagamba ...	64 1 4
2	505	Do do	....	Forest Ranger, Chikmagalur ...	72 2 10
3	155	Tarikere Taluk	Krishnappa, ...	Tarikere, Forest Contractor ...	132 2 8
4	506	Mudigere Taluk	Yelemale Ahmed Beri ...	Yelemale	67 5 0
5	589	Do	Anantha Kamath	Koppa	5 5 6
6	626	Do	A. Bavaya Kunbi	Mudigere	12 13 8
7	1008	Chikmagalur District	Puttiah	Tarikere	0 4 0
8	482	Mudigere Taluk	A. M. Mallappa	Aldur	2 10 7
9	706	Koppa	S. M. Peeran Bijali ...	Yedehalli	19 7 3
10	118	Tarikere	Fukruddin	Lakkavalli	0 12 6
			(*b*) Uncurrent accounts.		
1	1526	Koppa	Magera Dara	Haladi Huyyar Village, Kundapur	27 0 3
2	1313	Koppa	N. A. Linganna Heggade ...	Nemmar	64 7 2
3	4608	Chikmagalur District	C. Baji Sab	Arsikere	500 0 0

5644

K. M. SUBBAYYA *D.F.O.*

UNIVERSITY OF MYSORE

Amendment No. 142.

(*Calendar Volume I of 1947-48*).

THE FOLLOWING IS THE REVISED SYLLABUS IN PHYSICS FOR THE B.Sc. HONOURS DEGREE EXAMINATION.

Properties of Matter.

General.—Units and dimensions, Dimensional Equations. Accurate measurement of mass, length and time. Errors of observation; mean,—standard deviation. Probable error—method of least squares.

Gravitation.—Simple pendulum—Bifilar suspension—Reversible pendulum—corrections. Gravity surveys, Eotvos balance.

Gravitation constant; its determination by different methods. Mean density of the earth.

Kepler's laws and deduction of Newton's law of Gravitation therefrom and *vice versa*.

Masses of celestial bodies (binary systems).

Elasticity.—Hooke's law—Elastic constants and their mutual relationship. Determination of the constants by standard methods.

Stability of loaded pillers. Flat and non-flat spiral springs. Bridgman's work at high pressures. The plastic state. Hardness tests.

Surface Tension.—Determination of surface tension and angle of contact (standard methods). Cylindrical films. Theories of capillarity. Spreading of liquids on liquids.

Viscosity.—Viscosity of liquids: determination by Poiseuille, rotating cylinder, oscillating disc and Stoke's law methods.

Andrade's theory of liquid viscosity. Viscosity of gases; methods of Searle Anderson and Rankine.

Low Pressures.—Production and measurements of low pressures.

Sound.

Combinations of S.H.M. energy of Vibration.

Damped vibrations. Forced vibrations—Characteristics. Resonance.

Wave—motion; Progressive and stationary waves. Velocity of waves in (*a*) a gas (*b*) rod (*c*) extended solids (longitudinal and transverse).

Reflection, Refraction, Interference and Diffraction of sound.

Photography of sound waves.

Fourier's Theorem and analysis of wave forms. Theory of vibration of plucked, struck and bowed strings. Wolf note.

Transverse vibrations of bars—special cases. Tuning fork and its temperature coefficient.

Vibrations of rectangular and of circular membranes (symmetrical and non-symmetrical), and of plates (elementary). Experimental determinations of the velocity of sound in solids, liquids and gases.

Acoustic impedance—Application of the theory of impedance to (*a*) resonators, (*b*) Pipes—closed, open and partially stopped. (Flute and clarionet) (*c*) acoustic filters—low, high and band frequencies. Simple cases of measurement of acoustic impedance.

Analysis of sound—Measurements of (*a*) frequency, (*b*) amplitude, Calculation of velocity, pressure and intensity.

Supersonic waves—production, properties, and measurement of wavelengths in liquids.

Acoustics of buildings. Optimum reverbaration. Absorption coefficients of materials—determination and uses.

Musical scales.

Sound ranging. Sound signals; direction-finding; echo-sounding and echo-prospecting.

Recording and reproduction of sound—mechanical, optical and electro-magnetic methods.

Noise and its measurements.

Heat.

Thermometry—(1) Mercury-in-glass. (2) Gas (3) Resistance and (4) Therms—electric. Errors and corrections.

Specific heat of solids and gases at high and low temperatures. Kinetic theory of gases. Pressure, distribution of velocities and experimental verification. Mean free path phenomena. Viscosity and thermal conductivity of gases.

Equation of state for gases. Standard cases.

Change of state. Measurement of latent heat.

Thermal expansion of solids, crystals and liquids. Gruneisen's Law.

Thermal conductivity, general theory. Experimental methods of determination for solids, liquids, gases and crystals. Law of Weedemann and Franz.

Thermodynamics—First Law, Mechanical equivalent of heat; specific heats of liquids.

Heat engines, Power cycles, second law of thermodynamics. Maxwell's equations and applications.

Joule-Thomson effect—Theory and experiment. Correction to the gas scale.

Production and measurement of low and very low temperatures (including adiabatic de-magnetization method).

Radiation—Black body radiation. Kirchhoff's Law. Stefan's Law-Derivation and experimental verification.

Spectral distribution of energy—Rayleigh—Jeans theory Wien's displacement laws; Planck's theory and determination of Planck's constant.

Radiation Pyrometry—Surface temperatures of sun and stars. Theories of specific heats of solids—Dulong and Petit law, Einstein's and Debye's theories—Verification and validity of theories. Specific heats of gases—Application of quantum theory to diatomic molecules.

Elements of meteorology.